

Materials List for:

Efficient Generation and Editing of Feeder-Free iPSCs from Human Pancreatic Cells Using the CRISPR-Cas9 System

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Materials

Name	Company	Catalog Number	Comments
Sendai viral vectors - CytoTune-iPS 2.0 Kit	Invitrogen	A16517	Thaw on ice; S No: 1
Trypsin EDTA	Gibco Life Tech	25300-054	0.05%, 100 ml; S No: 2
Rock inhibitor (Y-27632)	Milipore	SCM075	Use 10 µM; S No: 3
DMEM/F-12 medium	Invitrogen	11330-032	S No: 4
Serum replacement (KSR)	Gibco	10828028	S No: 5
DMEM	Invitrogen	11960069	1X; S No: 6
Fetal bovine serum	Thermo Scientific	SH30071.03	Aliquot; S No: 7
L-glutamine (Glutamax, 100X), liquid	Thermo Scientific	35050061	1/100; S No: 8
Non-Essential Amino Acids	Gibco	11140-050	1/100; S No: 9
2-Mercaptoethanol	Gibco	21985023	55 mM, 1/1,000; S No: 10
Hausser Hemacytometers	Hausser Scientific	02-671-54	S No: 11
0.1% Gelatin Solution	STEMCELL Technologies	7903	Incubate at 37° C for 1 hour; S No: 12
SSEA-4 antibody	Santacruz	sc-21704	1/100; S No: 13
TRA-1-81 antibody	Cell Signaling	4745S	1/200; S No: 14
OCT4 antibody	Santa Cruz	sc-5279	1/1,000; S No: 15
Collagen I, Rat Tail	Life Technologies	A10483-01	Keep cold; S No: 16
Alexa Fluor fluorescent 488/ 568 (secondary antibodies)	Invitrogen	A21202/A10042	1/2,000; S No: 17
DPBS	Hyclone	SH30028LS	1X; S No: 18
100-mm tissue culture dish	Falcon	353003	S No: 20
96-well tissue culture plate	Falcon	353078	S No: 21
6-well tissue culture plate	Falcon	353046	S No: 22
Dissecting scope	Nikon	SMZ745	S No: 23
Picking hood	NuAire	NU-301	S No: 24
15 ml Centrifuge Tube	Greiner Bio-One	188271	S No: 25
50 ml Centrifuge Tube	Greiner Bio-One	227261	S No: 26
Sodium pyruvate	Invitrogen	11360	S No: 28
β-mercaptoethanol	Sigma	M7522	S No: 29
Prigrow III medium	ABM	TM003	S No: 31
Countess™ Cell Counter	Invitrogen	C10227	S No: 32

Faxitron X-ray system	Faxitron	CellRad	S No: 33
Accutase	Innovative cell Technologies	AT-104	S No: 34
Collagenase	Life Technologies	17104019	1mg/ml stock; S No: 35
Dispase	STEMCELL Technologies	7923	S No: 36
hESC qualified matrigel	BD Biosciences	354277	To dilute, use cold DMEM/F-12; S No: 37
bFGF	R & D	233-FB	Stock 10 ug/ml; S No: 38
Paraformaldehyde	EMS	15710	4% stock in PBS; S No: 39
TRA-1-60	Santa Cruz	sc-21705	1/100; S No: 40
NANOG	ReproCELL	RCAB0004P-F	1/100; S No: 41
Tween 20	Sigma	P9416-100ML	S No: 42
Alkaline Phosphatase kit	Stemgent	00-0055	S No: 43
Cas9 protein	PNA Bio	CP01-50	Thaw and aliquot; S No: 44
Goat or donkey serum	Sigma	D9663/G9023	S No: 45
Triton X-100	Sigma	X100-100ML	S No: 46
DAPI	Thermo Scientific	D1306	S No: 47
Tris	Sigma	9285-100ML	S No: 48
NaCL	Sigma	S7653-250G	S No: 49
EDTA	Sigma	BP2482-500	S No: 50
T4 DNA ligase	NEB	M0202T	S No: 51
Mega Shortscript T7 kit	Thermo Scientific	AM1354	S No: 52
Mega Clear kit	Thermo Scientific	AM1908	S No: 53
SMC4	BD Biosciences	354357	S No: 54
Fibronectin	STEMCELL Technologies	7159	S No: 55
CloneJET cloning kit	Thermo Scientific	K1232	S No: 56
Fragment analyzer™	Advanced Analytical		S No: 57
mTeSR1 medium kit	STEMCELL Technologies	5850	Warm to room temperature; S No: 58
Freezing medium mFreSR™	STEMCELL Technologies	5855	S No: 59
Freezing medium CryoStor®	STEMCELL Technologies	7930	S No: 60
MEFs	Globalstem	GSC-6301G	S No: 61
L-glutamine	Invitrogen	25030081	S No: 62
Human pancreatic cells	ABM	T0159	S No: 63
STEMdiff™ Neural Induction Medium	Stemcell Technologies	5835	S No: 64
RPMI	Thermofisher	11875-093	S No: 65
2% B27-insulin	Thermofisher	A1895601	S No: 66
CHIR99021	Stemcell Technologies	72052	S No: 67
IWP4	Stemcell Technologies	72552	S No: 68
2% B27	Thermofisher	17504044	S No: 69
MCDB 131	Life Technologies	10372019	S No: 70
Sodium bicarbonate	Sigma-Aldrich	S8761-100ML	S No: 71
Glucose	Sigma-Aldrich	G8270-100G	S No: 72
BSA	Proliant	68700	S No: 73
GDF8	Pepto-Tech	120-00	S No: 74
TUJ1 antibody	EMD Milipore	AB9354	S No: 75

NKX2-5 antibody	Santa Cruz	Sc-14033	S No: 76
SOX17 antibody	R & D systems	AF1924	S No: 77
Propidium iodide	Thermo Scientific	P3566	S No: 78
Amata 4D-nucleofector™	Lonza	AAF-1002	S No: 79
FACS Aria II (cell sorter)	BD biosciences	SORP UV	S No: 80